

Abstract

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5 A position sensor for use in connection with a movable system having a pair of objects that are configured to move relative to one another along an axis through an operative range of motion. The position sensor includes a first plate secured to one of the objects and a pair of second plates secured to the other of the objects. The second plates are adjacent each other and coplanar. The first plate and second plates are configured so that the second plates are spaced from and parallel to the first plate as the objects move relative to one another along the axis. The first plate and second plates are configured so that they form two  
10 variable, spaced-plate capacitors having capacitances that vary as the objects move relative to one another within the operative range along the axis. The position sensor is configured to use the capacitances to generate output usable to determine relative position of the objects along the axis.